

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS II145-6 REV A, AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA145-5 REV N/C  
REF. TCCA STC: SH21-24  
REF. EASA STC: 10077436  
REF. FAA STC: SR04694NY

## 1.0 PURPOSE:

The purpose of this Dart Service Instruction (DSI) is to provide clarification on the Installation of the Trakka Box using the P/N 654.6717 Kit per Section 13.0 of II145-6.

## 2.0 PROCEDURE:

The Trakka Box should be installed using the P/N 654.6717 Kit as follows:

1. Remove the Trakka Box from the Multi-Functional-Step by removing the Quick Release Pins.
2. Remove the handle (P/N L258M2118801) with Quick Release Pins (See Figure 1) from the existing brackets used to attach the Trakka Box to the Multi-Functional-Step. Retain screws, washers, plugs, and handle for re-installation.
3. Remove the existing Fwd (P/N D334M6024101) and Aft (P/N D334M6026101) brackets used to attach the Trakka Box to the Multi-Functional-Step by removing the attachment hardware. Retain LN9016-05L washers and one D334M6027201 bolt from each bracket for re-installation.
4. Use a heat gun to modify the rubber ends of the cable channels as shown in Figure 2 to prevent the cable channels from making contact with the Multi-Functional-Step.
5. Manufacture replacement rubber cushions to install on the Dart brackets as shown in Figure 3. The large rubber cushion (Figure 3, Item 1, Airbus P/N D334M6021201) should be manufactured from Polychloroprene 31B5 and should be installed using Dow Betaseal 8000-1F adhesive. The small rubber cushion (Figure 3, Item 2) is manufactured from LN9108-5.5601-1 sheet and should be installed using 3M adhesive EC847. Prepare the surface of the Dart brackets for cushion installation using Dow Betaprime 5404.
6. Install a D334M6027201 bolt into the helical insert on the Dart Fwd (P/N 652.1302) and Aft (P/N 652.1301) brackets as shown in Figure 1 using PPG CA1010.
7. Prior to installing the Dart Aft Bracket (P/N 652.1301), remove the paint finish down to bare metal at the attachment holes for the QR Pin and along the bottom of the part. Apply Loctite Ablestick 57C conductive sealant in these areas during installation.
8. Install Dart brackets on to the Trakka Box per Figure 4 using EN3308H050054F Bolts and LN9016-05L washers that were retained at Step 3. Torque fasteners to 3-4 N m. Re-apply finish protection to the bolt heads (WL 5.7054 RAL 9005 paint + WL 5.7052 hardener + WL 5.7059 thinner).
9. Re-install bonding strap with the aft bracket using EN3820-050050F Bolt and LN9016-05L washer as shown in Figure 4. Torque fastener to 3-4 N m. Re-apply surface protection to the strap attachment and bolt head (Celomer 4125/6407 blue + Celomer 0613/9000 hardener + Celomer 0580/9000 thinner). Apply finish protection (WL 5.7054 RAL 9005 paint + WL 5.7052 hardener + WL 5.7059 thinner).
10. Attach the Fwd and Aft Connection Plates (both P/N D334M6025101) to the Dart brackets as shown in Figure 5. Re-use the bolts, washers, and castellated nut from the original brackets. Use new cotter pin P/N EN2367-14016 to secure the castellated nuts. Apply surface protection (CM0518) and seal sharp edges of cotter pins using PR1782 B2 or MC780 B1/2 or MC780 B1 or MC780 B2 sealant.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 22.10.24  
CERT. NO.: SH21-24  
ISSUE NO.: 1

A	NEW ISSUE	AA	22.10.24
REV.	DESCRIPTION	BY	DATE
DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9895	SHEET 1 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	COPYRIGHT © 2022 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



## 2.0 PROCEDURE (CONTINUED):

11. Re-install handle (P/N L258M2118801) with Quick Release Pins on to the Dart brackets per Figure 6 using Screws (P/N EN3759-050012A), Washers (EN2139-05010), and Plugs (P/N GPN300F5) retained at Step 2. Install Plugs wet with PR1782 B2 or MC780 B1/2 or MC780 B1 or MC780 B2 sealant.
12. Re-attach the Trakka Box (with Dart brackets installed) to the Multi-Functional-Step using the Quick Release Pins as shown in Figure 7.
13. Route cable channels and secure to the handle as shown in Figure 8. Secure the bonding strap to the cable channels as shown in Figure 9 using an MS3367 or MIL-S-23190 tywrap (Airbus P/N ASN E0043-7C0P). Use a triple clamp binder (P/N MS3368-4-9D) to clamp the cable channels together as shown in Figure 10. Use 3 x single MS3367 or MIL-S-23190 tywraps (Airbus P/N ASN E0043-7C0P) to secure the cable channels to the handle as shown in Figure 11. To prevent damage to the cable channels, do NOT overtighten the clamp binders.
14. Re-position the Handle from the 646.5901 Pull Cable as shown Figure 12. Perform the rigging checks on the Liferaft Pull Cable Rigging per Section 10 of II145-6.

## 3.0 WEIGHT AND BALANCE:

These modifications will have negligible effect on the Weight and Balance of the aircraft.

## 4.0 PART LIST:

The following Airbus Components are required to complete this modification:

QTY	P/N	DESCRIPTION
1	L258M2118801	HANDLE
2	D334M6025101	CONNECTION PLATES
2	D334M6021201	RUBBER CUSHION
2	D334M6027201	BOLT
A/R	LN9108-5.5601-1	RUBBER SHEET
2	EN3759-050012A	SCREW
2	EN2139-05010	WASHER
2	GPN300FS	PLUG
1	EN3820-050050F	BOLT
3	EN3308H050054F	BOLT
4	LN9016-05L	WASHER
4	MS3367 OR MIL-S-23190	TY WRAP
1	MS3368-4-9D	TRIPLE CLAMP BINDER
2	EN2367-14016	COTTER PIN
A/R	8000-1F	ADHESIVE (3M)
A/R	EC847	ADHESIVE (3M)
A/R	57C	LOCTITE ABLESTIK
A/R	PPG CA1010	THREAD LOCKER
A/R	WL 5.7054 RAL 9005	PAINT
A/R	WL 5.7052	HARDENER
A/R	WL 5.7059	THINNER

DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>DSI 9895</b>	SHEET 2 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	COPYRIGHT © 2022 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



5.0 REFERENCE FIGURES:

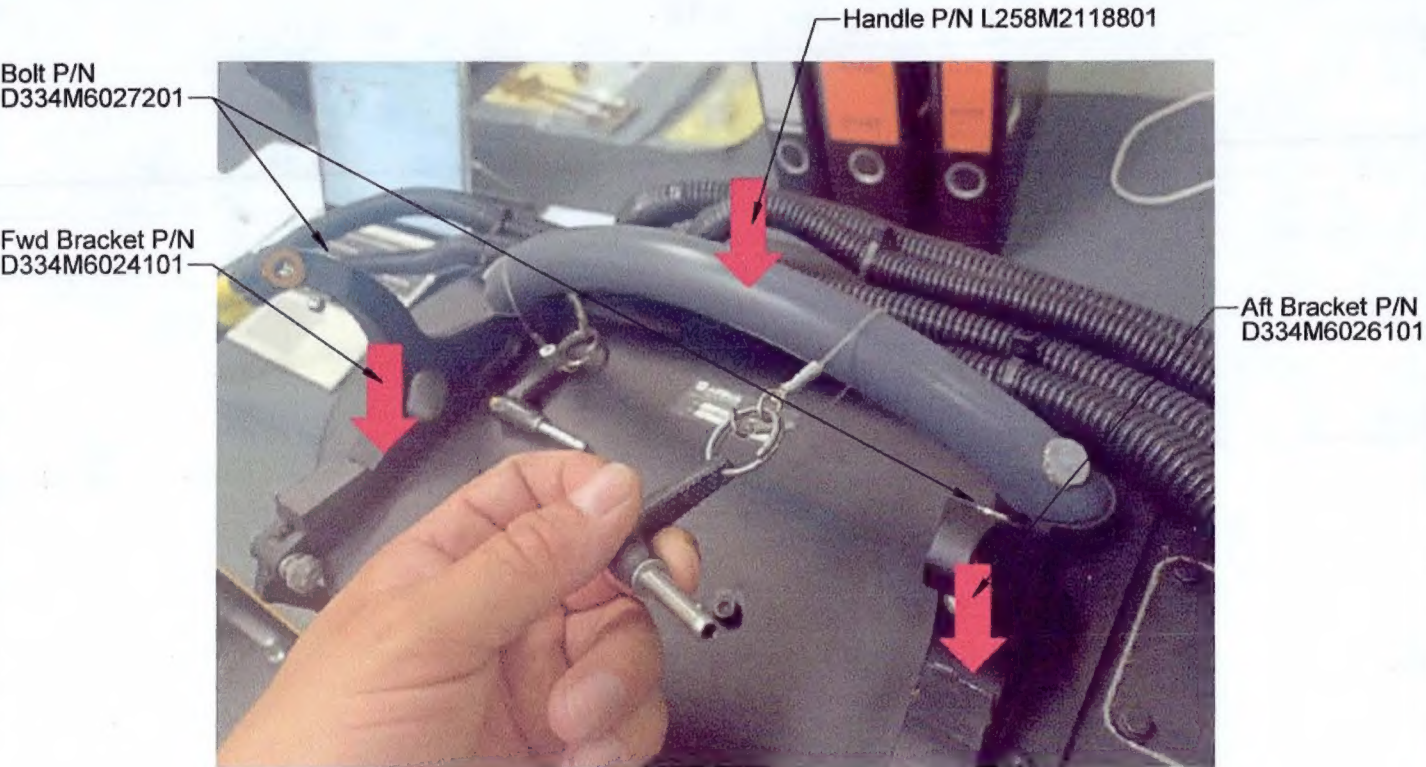


FIGURE 1: REMOVE HANDLE

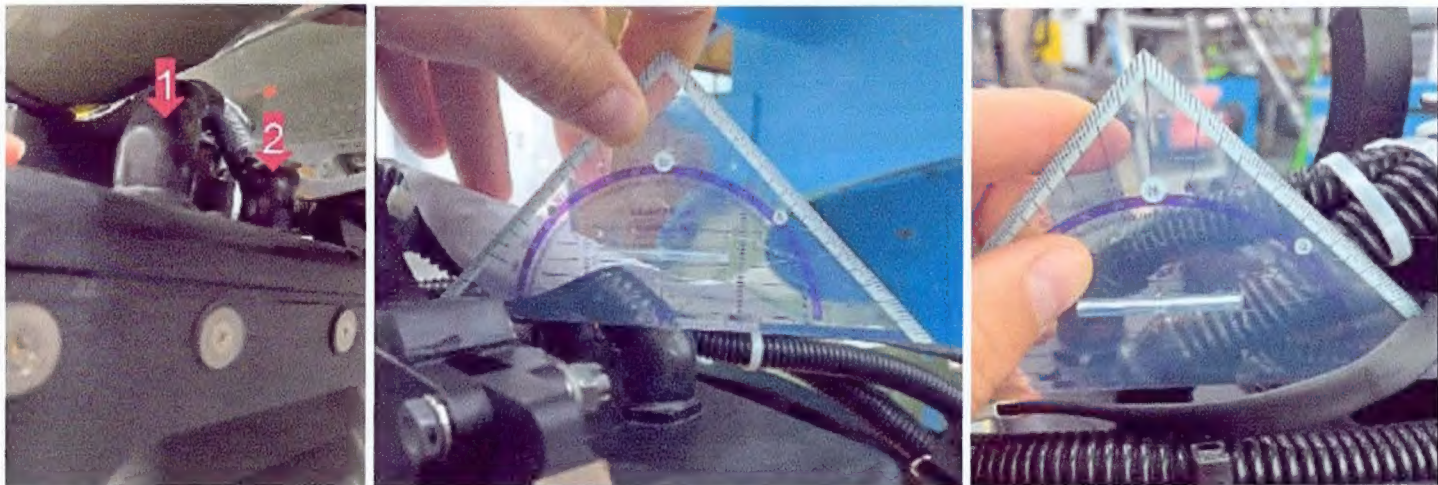


FIGURE 2: CABLE CHANNEL MODIFICATION

DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO. <b>DSI 9895</b>	REV. A
MFG. APPR.	N/A		SHEET 3 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	COPYRIGHT © 2022 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



5.0 REFERENCE FIGURES (CONTINUED):

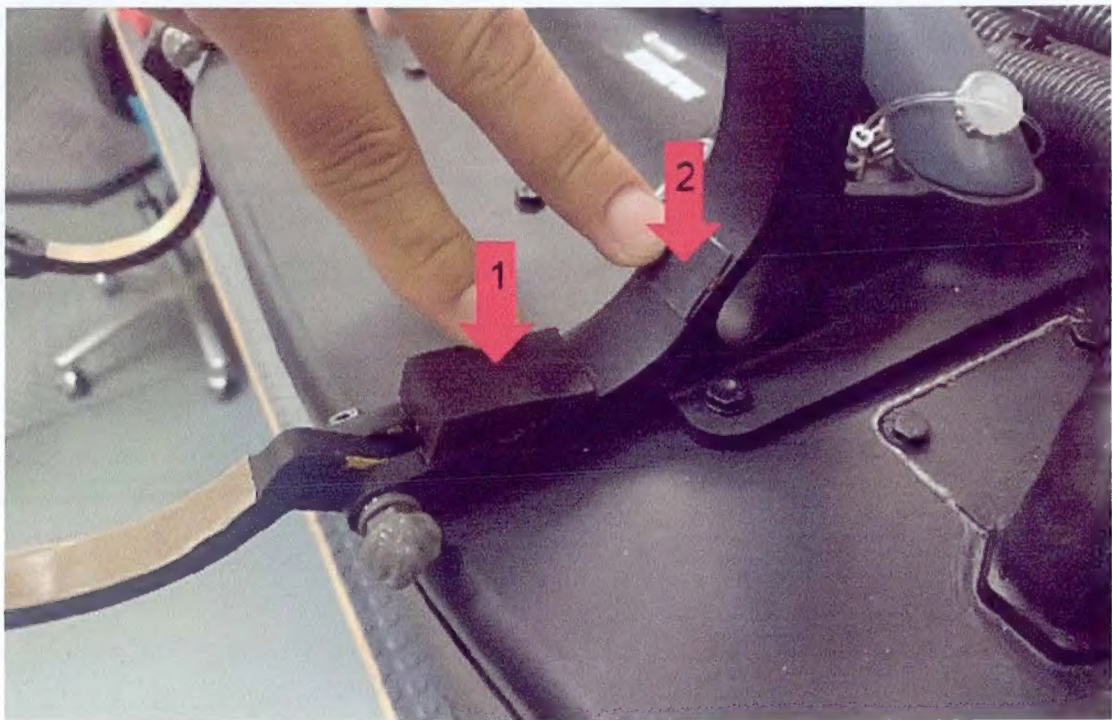


FIGURE 3: RUBBER CUSHION INSTALLATION

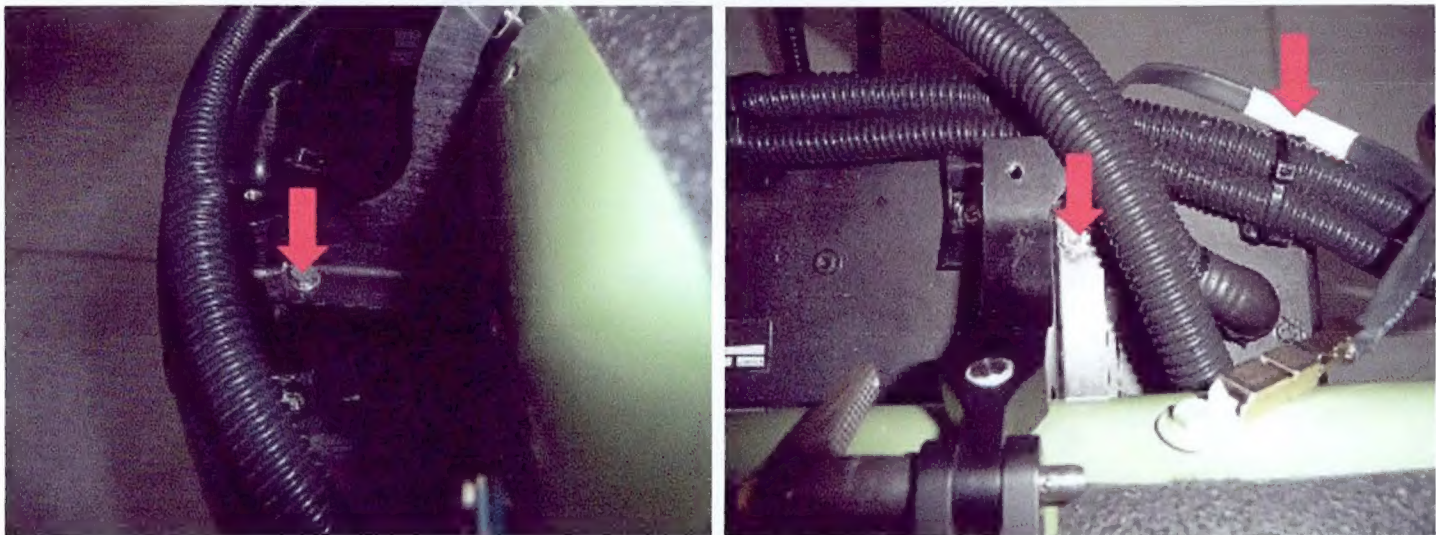


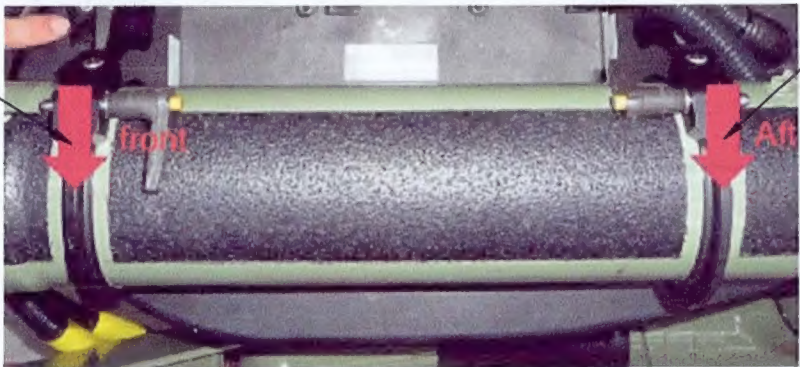
FIGURE 4: DART BRACKETS AND BONDING STRAP INSTALLATION

DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO. <b>DSI 9895</b>	REV. A
MFG. APPR.	N/A		SHEET 4 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	COPYRIGHT © 2022 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



5.0 REFERENCE FIGURES (CONTINUED):

Connection Plate  
P/N D334M6025101



Connection Plate  
P/N D334M6025101

Connection Plate  
P/N D334M6025101

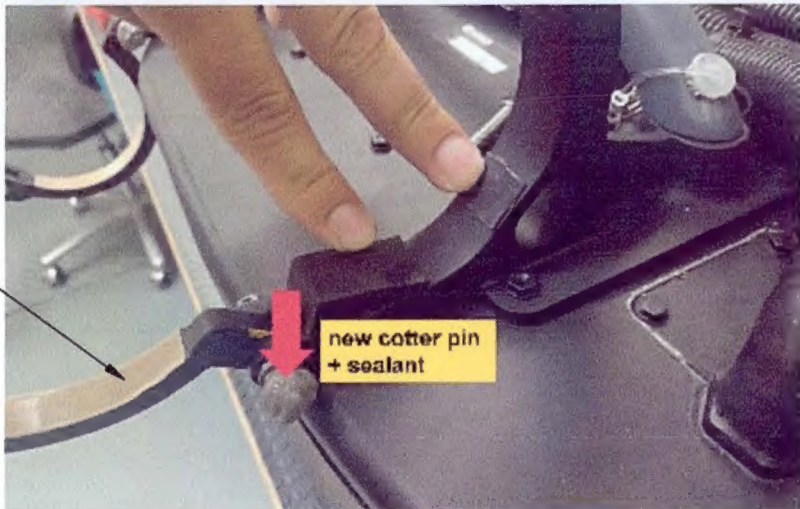


FIGURE 5: CONNECTION PLATE INSTALLATION

Handle  
P/N L258M2118801

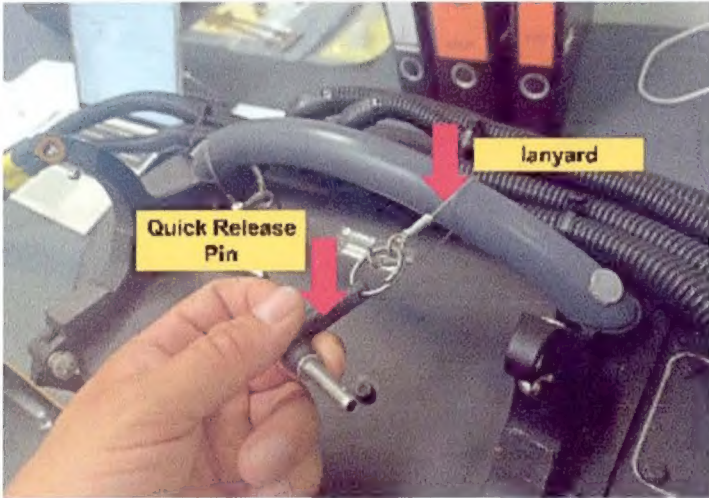


FIGURE 6: HANDLE RE-INSTALLATION

DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO. <b>DSI 9895</b>	REV. A
MFG. APPR.	N/A		SHEET 5 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	COPYRIGHT © 2022 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



## 5.0 REFERENCE FIGURES (CONTINUED):

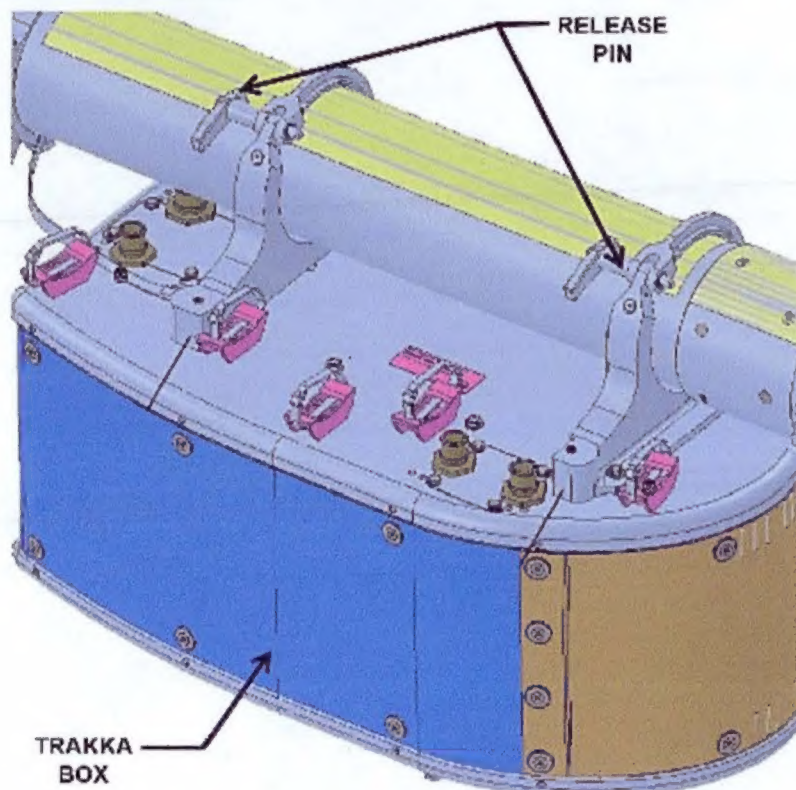


FIGURE 7: TRAKKA BOX INSTALLATION

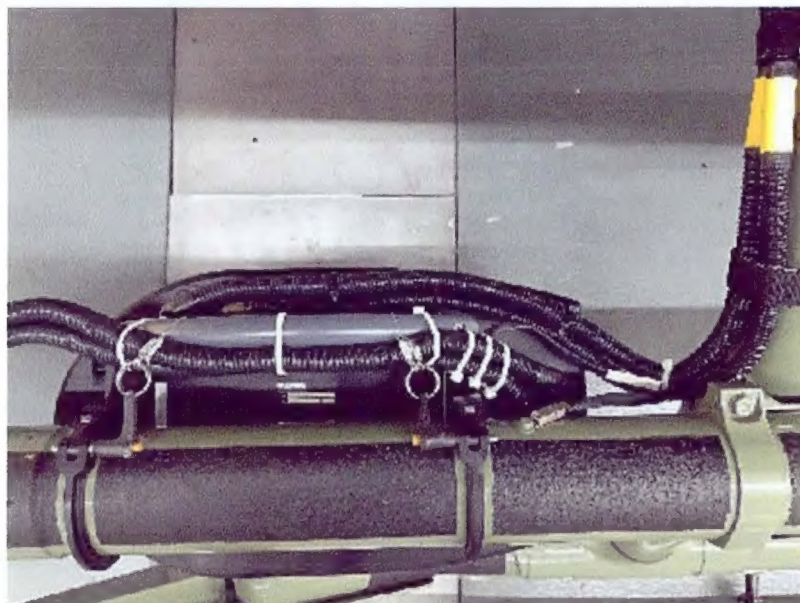


FIGURE 8: CABLE CHANNELS ROUTING

DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>DSI 9895</b>	SHEET 6 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	COPYRIGHT © 2022 BY DART AEROSPACE LTD. <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



## 5.0 REFERENCE FIGURES (CONTINUED):

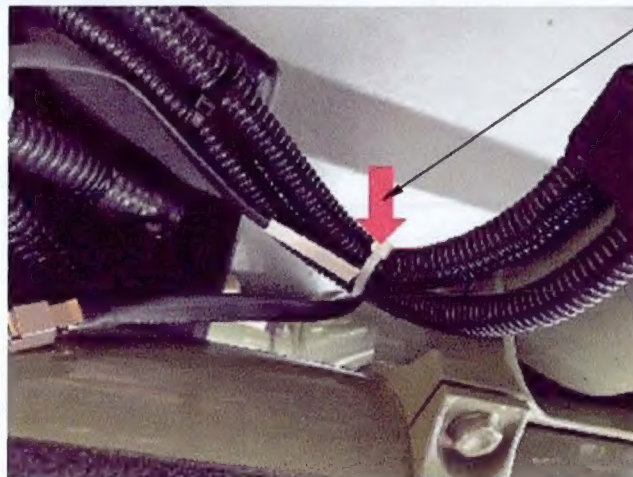


FIGURE 9: BONDING STRAP INSTALLATION



FIGURE 10: CABLE CHANNEL INSTALLATION

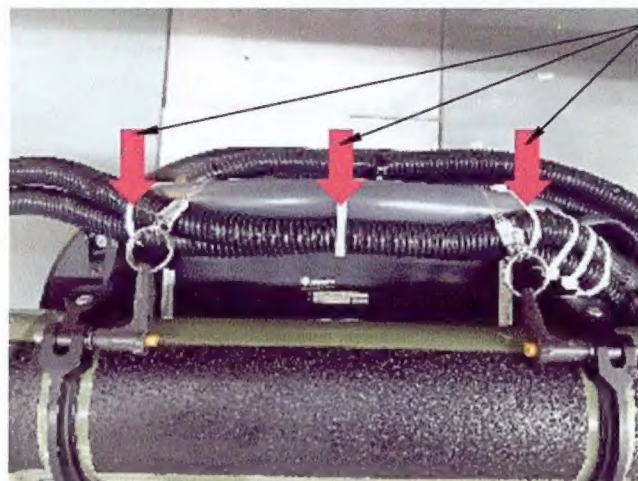


FIGURE 11: CABLE CHANNEL INSTALLATION

DESIGN	AA
DRAWN	AA
CHECKED	CZ
MFG. APPR.	N/A
APPROVED	CZ
DE APPR.	DS
DATE	22.10.24

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.  
**DSI 9895**

REV. A  
SHEET 7 OF 8

TITLE  
**TRAKKA BOX INSTALLATION** NTS

COPYRIGHT © 2022 BY DART AEROSPACE LTD.  
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS  
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT  
WRITTEN PERMISSION FROM DART AEROSPACE LTD.



**5.0 REFERENCE FIGURES (CONTINUED):**



Dart P/N 646.5901  
Pull Cable Assembly

**FIGURE 12: LIFERAFT HANDLE RE-POSITIONING**

DESIGN	AA	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AA		
CHECKED	CZ	DRAWING NO.	REV. A
MFG. APPR.	N/A	<b>DSI 9895</b>	SHEET 8 OF 8
APPROVED	CZ	TITLE	SCALE
DE APPR.	DS	<b>TRAKKA BOX INSTALLATION</b>	NTS
DATE	22.10.24	<small>COPYRIGHT © 2022 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	